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APPLICATION NO.	LICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/773,044 02/05/2004		02/05/2004	Yukihisa Hirotsugu	TI-36214	5447	
23494	7590	09/06/2005	EXAM	EXAMINER		
		ENTS INCORPO	NGUYE	NGUYEN, HIEP		
P O BOX 65 DALLAS, T			ART UNIT	PAPER NUMBER		
				2816		

DATE MAILED: 09/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	D.	Applicant(s)							
		10/773,044		HIROTSUGU ET AL.							
	Office Action Summary	Examiner		Art Unit							
		Hiep Nguyen		2816	$(\mathscr{U}_{\mathcal{N}})$						
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply										
WHI( - Exte efter - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DISTRICT IN THE MAILING DISTRICT DIST	ATE OF THIS C 36(a). In no event, ho will apply and will expire, cause the application	COMMUNICATION wever, may a reply be tim e SIX (6) MONTHS from to to become ABANDONED	l. ety filed the mailing date of this cor () (35 U.S.C. § 133).							
Status											
1)⊠	Responsive to communication(s) filed on 15 J	<u>uly 2005</u> .									
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ This	s action is non-fi	nal.	·							
3)	nce this application is in condition for allowance except for formal matters, prosecution as to the merits is										
	closed in accordance with the practice under E	Ex parte Quayle	, 1935 C.D. 11, 45	3 O.G. 213.							
Disposit	ion of Claims										
4)⊠	Claim(s) 1-20 is/are pending in the application										
	4a) Of the above claim(s) is/are withdrawn from consideration.										
· ·	5)⊠ Claim(s) <u>9-20</u> is/are allowed.										
· ·	6) Claim(s) <u>1-8</u> is/are rejected.										
I '—	7) Claim(s) is/are objected to.										
0)	8) Claim(s) are subject to restriction and/or election requirement.										
Applicat	ion Papers	-		·							
9)	9) The specification is objected to by the Examiner.										
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.											
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).											
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).											
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.											
Priority (	ınder 35 U.S.C. § 119										
l .	Acknowledgment is made of a claim for foreign	priority under 3	5 U.S.C. § 119(a)	$\cdot$ (d) or (f).							
a)	a) ☐ All b) ☐ Some * c) ☐ None of:										
	<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>										
	3. Copies of the certified copies of the prior		* *		Stage						
 	application from the International Burea	•		u III (IIIS National C	Jiage						
* 5	See the attached detailed Office action for a list	· ·		d.							
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Attack	eta)										
Attachmen	τ(s) e of References Cited (PTO-892)	4) F	Interview Summary (	PTO-413)							
2) D Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	_, r	Paper No(s)/Mail Da	te´.	4						
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) <u>L</u> 6) [	」Notice of Informal Pa ]Other:	atent Application (PTO-	·152)						
U.S. Patent and T	rademark Office										
PTOL-326 (R	ev. 7-05) Office Ad	ction Summary	Par	t of Paper No./Mail Dat	te 30082005						

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#### **DETAILED ACTION**

The Examiner tried to contact the Attorney on 08-18-05 to propose an examiner's amendment concerning 112, 2<sup>nd</sup> problems in order to put the application in a condition for allowance. However, the Attorney did not response and as a result, this Office Action is issued for addressing the 112, 2<sup>nd</sup> problems only.

# Claim Objections

Claims 4 and 9 are objected to because of the following informalities: the recitation "the amplifying circuits" in claim 4, line 3; the recitation "the first stage of the preamplifier" in claim 9, lines 3 and 7 lack antecedent basis. Appropriate correction is required.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

6153The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Correction and /or clarification is required.

Regarding claim 1, the recitations "a first differential pair of amplifying transistors" on lines 14-15 and "a second differential pair of amplifying transistors" on lines 16-17 are indefinite because it is not clear as to they are the same or different than the recitations "a first differential pair of amplifying transistors" on line 2 and "a second differential pair of amplifying transistors" on lines 2-3. The recitation "the first transistor and second transistor" on line 24 does not have antecedent basis. It is not clear as to they are same or different than the recitations "a first differential pair of transistors" and "a second differential pair of transistors" on lines 2.

Claims 2-8 are indefinite because of the technical deficiencies of claim 1.

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# Allowable Subject Matter

Claim 1-8 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Claims 9-20 are allowed.

Claims 1-8 would be allowable because the prior art of records (US Pat. 6,847,501 and 6,552,593) fails to teach or fairly suggest a first stage of a preamplifier circuit comprising: a first differential pair of transistors and a second differential pair of transistors coupled to input terminals through capacitors; first and second current loops comprising resistors and transistor switches coupled to the bases of the first and second differential pair of transistors, the first current loop and second current loop operable to equalize the charges upon the first transistor and second transistor as called for in claim 1.

Claims 9-20 are allowed because the prior art of records (US Pat. 6,847,501 and 6,552,593) fails to teach or fairly suggest first and second circuits comprising first and second pair of differential transistors, first and second current loops comprising switches and resistors coupled to the bases of the first and second pair of differential transistors as called for in claim 9; a method of reducing the offset current from a base current compensation circuit, comprising: placing a current loop comprised of a balanced pair of resistors opposite each other and a pair of transistor switches opposite each other across the bases of a differential pair of transistors; and capacitively coupling said current loop to the input of a circuit so that the current loop charges input capacitors so as to decrease the recovery time of the circuit as called for in claim 18.

#### Conclusion

Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to

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37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hiep Nguyen whose telephone number is (571) 272-1752. The examiner can normally be reached on Monday to Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hiep Nguyen

08-30-05

TUANT. LAM

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